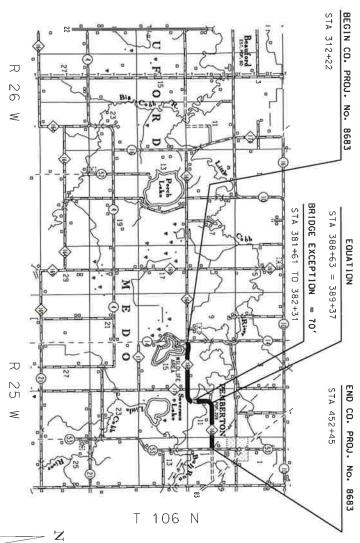
BLUE EARTH COUNTY



DESIGN DESIGNATION

SOIL FACTOR 130 DESIGN SPEED NOT ACHIEVED AT: DESIGN SPEED 45 MPH ADT (Heavy Commercial) STOPPING SIGHT DISTANCE BASED ON ESAL 69,000 ADT (Current Year) 162 2014 SHOULDER WIDTH 3' ADT (Future Year) 243 2034 0.5' HEIGHT OF OBJECT 3.5' HEIGHT OF EYE TON DESIGN

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX OF SHEETS

SHEET No. SHEET No. SHEET No. 1 STANDARD PLATES ESTIMATED QUANTITIES TITLE

SHEET No. SHEET NO. 4-5 CHARTS σ TYPICAL SECTIONS

SHEET No. DETAILS

DATE

PLAN NOT TO SCALE

HIGHWAY DEPARTMENT

OVERLAY & AGGR. SHOULDER CONSTRUCTION PLAN FOR BITUMINOUS

COUNTY ROAD No. 168

FROM: THE SW COR. OF SEC. 10-106-25 BETWEEN: CSAH 14 AND CSAH 53 TO: THE SE COR OF THE SW 1/4 OF THE NW 1/4 SEC. 12-106-25 유

NET LENGTH BRIDGE EXCEPTION GROSS LENGTH 13949.00 13949.00 70.00 LEET LEET FEET 0.013 2.642 2.629 MILES MILES MILES

GRADED IN: 1955

OVERLAYED IN: 1987 UNDER CO. PROJ.

NO:

878

PLAN BECAUSE OF STARTING STATIONS DIFFER FROM OLD AND STOPPING POINTS

COMPLIED WITH. IN THE CONSTRUCTION OF THIS PROJECT. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL

BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. I HERE BY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED

ALAN FORSBERG

LIC. No. 14720

00. PROJ. Z 0. 8683 SHEET Z 0. 유 \neg SHEETS

1116	0	LIN FT 1116	LIN FT	(2) 2580.501 TEMPORARY LANE MARKING	2580.501	(2)
3241	0	3241	TON	(1) 2360.501 TYPE SP 19.0 WEARING COURSE MIX (2.B)	2360.501	(1)
640	0	640	SQ YD	2232.501 MILL BITUMINOUS SURFACE	2232.501	
1034	0	1034	TON	(1) 2221.501 AGGREGATE SHOULDERING, CL-1 (M)	2221.501	(1)
43	0	43	TON	AGGREGATE SURFACING, CL-2 (M)	(1) 2118.501	(1)
UNIT 168 PART. TOTAL	PART.	168	UNIT	ITEM	0 E	
	Z	70			1 7 7 7 1	

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ESSIONAL ENGINEER

LIC. No. 14720 MAR. 10,

2014

CO. PROJ. No.

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⁽¹⁾ BASIS OF PAYMENT SPECIFIED IN SPEC. 1903 SHALL BE MODIFIED TO PRECLUDE

BASIS FOR PLANNED QUANTITIES

AGGREGATE SHOULDERING, & SURFACING COMPACTED DRY DENSITY — 140 LBS. PER CU. FT.

BITUMINOUS SURFACE BITUM. MAT'L FOR TACK COAT WILL BE INCIDENTAL

BITUM. MAT'L FOR WEAR COURSE AC (PG 58-28) 5.8% BY WEIGHT

BITUM. COURSES, 110 LBS. PER 1" / SQ. YD.

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY

10008	PLATE No.	
STANDARD BARRICADES	DESCRIPTION	STANDARD PLATES

LIC. No. 14720 MAR. 10, 2014

CO. PROJ. No.

8683

SHEET No.

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SHEETS

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			-							
28 15					TONS	7 15	@ SNO @	WAYS SECTION	DRIVEWAYS @ INTERSECTIONS @	4 -
							2 (M)	NG CL	URFACI	AGGR. SURFACING CL-2 (M)
	94					NCES	MATERIAL FOR FIELD ENTRANCES	R FIEI	RIAL FO	MATE
	220	N	з	6308	45 LT	452 +			389 +	STA
	20	N	ω	625	63 LT	388 +	TO STA	38	382 +	STA
	20	N		963		381 +			372 +	STA
	160	N		4474	25 LT	372 +			327 +	STA
	10	N	N	346		327 +			324 +	STA
	40	N	ω	1183	5 LT	324 +			312 +	STA
	160	N	ω	4658	45 RT	452 +	_		405 +	STA
	20	2	N	902		405 +			396 +	STA
	30	N	ω	748	85 RT	396 +	TO STA	37	389 +	STA
	20	2	ω	632	63 RT	388 +	_		382 +	STA
	220	N	3	6253	61 RT	381 +			319 +	STA
	10	N	N	399	8 RT	319 +			315 +	STA
	10	2	ω	287		315 +			312 +	STA
								Z	SHOULDER CL-1M	SHOULI
NOT	TON	INCHES	FEET	FEET				S S	LOCATION	
SURF.	SHLD.	DEPTH	WIDTH	LENGTH						
AGGR.	AGGR.		AVER							
		0000	1100.110.	-	00.	-	10000			

SHEET 4 OF 7 SHEETS

	CH	CR 168	SUI	띩	PA	VE B	SUPERPAVE BITUM. CALCULATIONS	LCULAT	SNOL		
									AVER		
								LENGTH	WIDTH	DEPTH	WEAR
		LOCATION	<u>S</u>					FEET	FEET	INCHES	TON
BITUM. WEAR											
	STA	312 +	22 1	TO S:	STA	315 +	9	287	24	1,5	
	STA	315+		SOL	STA	319 +	00	399	26	1.5	
	STA	319 +	8 T	_	STA	324 +	ĆΊ	497	24	<u>.</u> 51	
	STA	324 +	5 J	TO S	STA	327 +	51	346	26	1.5	
	STA	327 +	51 T	SOL	STA	372 +	. 25	4474	24	1.5	
	STA	372 +	25 1	TO S	STA	381 +	61	936	26	1.5	
	STA	382 +	31 1	TO S	STA	388 +	63	632	24	1.5	
EQUATION	STA	388 +	63	S	STA	389 +	. 37				
	STA	389 +	37 7	TO S	STA	396 +	85	748	24	1.51	
	STA	396 +	85 T	S OT	STA	405 +	. 87	902	26	77.	
	STA	405 +	87 1	TO S	STA	452 +	45	4658	24	1.51	1025
	<u> </u>	INTERSECTIONS	CTIO	® SI		30	SNOT				ω
	o o		AYS ©			15	TONS				90
	6	MAILBOX PADS @	X PAD	S ®		125	LENGTH	750	ω	1.5	Ŋ
PARITI IM14hirim)CB 168/168 SUPERPAVE xIs JA	8//168 SUP	ERPAVExis IA							TOTAL		324

MILL BITUM.		SURFACE	A C E	
STATION TO STATION	LOC.	LOC, LENGTH WIDTH SQ.YD.	WIDTH	SQ.YD.
OT		120	24	320
382 + 31 TO 383 + 51		120	24	320
P\BITUM14bitum\CR168(168 MLL_xls]A			TOTAL	640

TAPER FROM END OF BRIDGE STARTING AT DEPTH OF 1.5" OUT TO 0" IN 100' THE MILLINGS SHALL BE HAULED TO PRANGE PIT, SEE SPECIAL PROVISIONS.

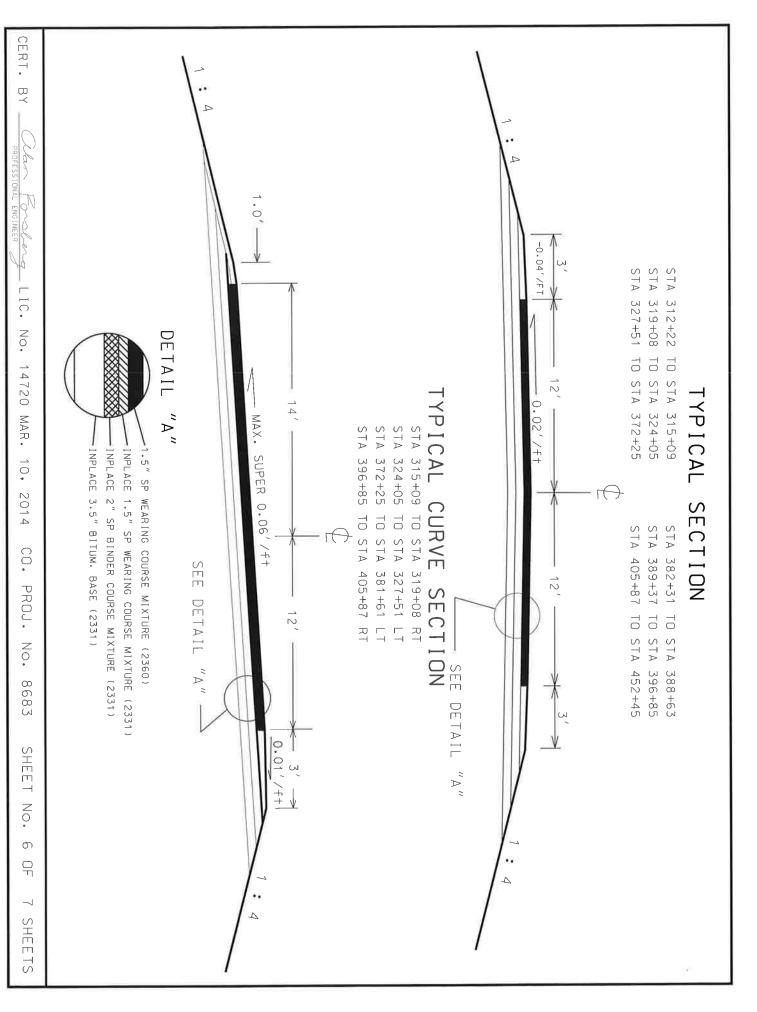
SUPERPAVE & MILLING QUANTITES

CO. PROJ. No. 8683 SHEET No. 5 OF 7 SHEETS

CERTIFIED BY_

ahr Forsley

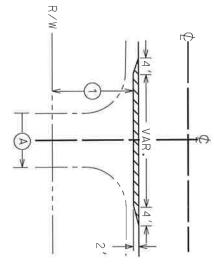
LIC. NO. 14720 MAR. 10, 2014

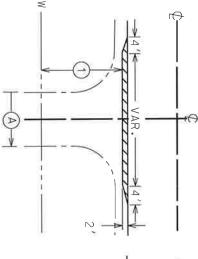


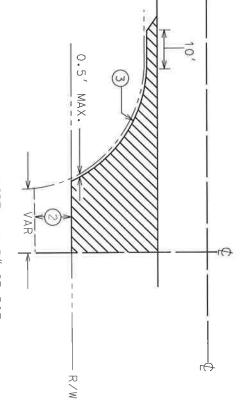
BITUMINOUS APPROACHES AND ENTRANCES DETAIL

F IELD ENTRANCE

ROAD APPROACH





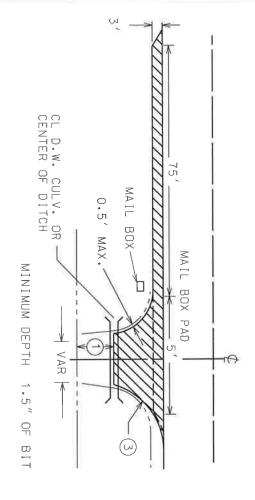


MINIMUM DEPTH 1.5" B 20, FOR SINGLE 무 ы ш ш BIT

MINIMUM DEPTH 1.5" 무 ВІТ

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- -FINISH WITH AGGR. EDGE OF BITUM. TO MATERIAL FROM A MIN. OF 10'.
- (2) FINISH WITH AGGR. MATERIAL, MIN. 유 10′
- u BITUM. RADIUS TO BE STAKED (FOR FARM D.W. CONSIDER 30) MIN. TO 40' MAX.)

CONTRACTOR WILL BE REQUIRED TO SHAPE & NOTCH ALL DRIVEWAYS, INTERSECTIONS & MAIL BOX PADS THAT ARE NOT ALREADY PAVED AS DIRECTED BY THE ENGINEER, WORK SHALL BE DONE INCIDENTAL TO THE WEAR.

CONTRACTOR WILL BE REQUIRED SHOULDERS ON ALL APPROACHES AS DIRECTED BY THE ENGINEER. TO HAND FINISH AND ENTRANCES

LIC. Z 0. 14720 MAR. 0 2014 0. PROJ. Z 0. 8683 SHEET NO: ~ 9 SHEETS

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